

A b s t r a c t

An electronic compressed-air system comprises a compressed-air supply part (4) provided with a compressor (7) and a consumer part (6) with a plurality of compressed-air load circuits (26, 28, 30, 32, 34, 36). The compressed-air load circuits are supplied with compressed-air via solenoid valves (16, 18, 20, 22). At least one compressed-air load circuit is provided with a pressure reservoir (90, 92). The pressure in the load circuits is monitored by pressure sensors (72, 74, 76, 78, 80), whose electrical pressure signals are evaluated by an electronic control unit (84) that controls the solenoid valves. The compressed-air load circuits comprise service-brake circuits (26, 28) with a compressed-air reservoir (90, 92), secondary load circuits (30, 32, 34, 36) without compressed-air reservoirs and a high-pressure circuit (38) without or with compressed-air reservoir, wherein the solenoid valves (16, 18) of the service-brake circuits and the solenoid valves (20, 22) of the secondary load circuits (are open in the de-energized normal state and the solenoid valve (24) of the high-pressure circuit is closed in the de-energized normal state.